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1 ATGGCAGCTAAAGACGTAAATTCGGTAACGACGCTCGTGTGAAAATGCTGCGCGGCGTA
 1 METAlaAlaLysAspValLysPheGlyAsnAspAlaArgValLysMETLeuArgGlyVal

 61 AACGTACTGGCAGATGCAGTGAAAGTTACCTCGGTCCGAAAGGCCGTAACGTAGTTCTG
 21 AsnValLeuAlaAspAlaValLysValThrLeuGlyProLysGlyArgAsnValValLeu

 121 GATAAATCTTTCGGTGCACCGACCATCACCAAAGATGGTGTTCGGTTGCTCGTGAAATC
 41 AspLysSerPheGlyAlaProThrIleThrLysAspGlyValSerValAlaArgGluIle

 181 GAACTGGAAGACAAGTTCGAAAACATGGGTGCGCAGATGGTGAAAGAAGTTGCCTCTAAA
 61 GluLeuGluAspLysPheGluAsnMETGlyAlaGlnMETValLysGluValAlaSerLys

 241 GCGAACGACGCTGCAGGCGACGGTACCACCCTGCAACCGTACTGGCTCAGGCTATCATC
 81 AlaAsnAspAlaAlaGlyAspGlyThrThrThrAlaThrValLeuAlaGlnAlaIleIle

 301 ACTGAAGGTCTGAAAGCTGTTGCTGCGGGCATGAACCCGATGGACCTGAAACGTGGTATC
 101 ThrGluGlyLeuLysAlaValAlaAlaGlyMETAsnProMETAspLeuLysArgGlyIle

 361 GACAAAGCTGTTACCGCTGCAGTTGAAGAACTGAAAGCGCTGTCCGTACCGTGTCTGAC
 121 AspLysAlaValThrAlaAlaValGluGluLeuLysAlaLeuSerValProCysSerAsp

 421 TCTAAAGCGATTGCTCAGGTTGGTACTATCTCCGCTAACTCCGACGAAACCGTAGGTAAA
 141 SerLysAlaIleAlaGlnValGlyThrIleSerAlaAsnSerAspGluThrValGlyLys

 481 CTGATCGCTGAAGCGATGGACAAAGTCGGTAAAGAAGGCGTTATCACCGTTGAAGACGGT
 161 LeuIleAlaGluAlaMETAspLysValGlyLysGluGlyValIleThrValGluAspGly

 541 ACCGGTCTGCAGGACGAACTGGACGTGGTTGAAGGTATGCAGTTCGACCGTGGCTACCTG
 181 ThrGlyLeuGlnAspGluLeuAspValValGluGlyMETGlnPheAspArgGlyTyrLeu

 601 TCTCCTTACTTCATCAACAAGCCGGAACCTGGCGCAGTAGAACTGGAAGCCCGTTTCATC
 201 SerProTyrPheIleAsnLysProGluThrGlyAlaValGluLeuGluSerProPheIle

 661 CTGCTGGCTGACAAGAAAATCTCCAACATCCGCGAAATGCTGCCGGTTCTGGAAGCCGTT
 221 LeuLeuAlaAspLysLysIleSerAsnIleArgGluMETLeuProValLeuGluAlaVal

 721 GCCAAAGCAGGCAAACCGCTGCTGATCATCGCTGAAGATGTAGAAGGCGAAGCGCTGGCA
 241 AlaLysAlaGlyLysProLeuLeuIleIleAlaGluAspValGluGlyGluAlaLeuAla

 781 ACTCTGGTTGTTAACACCATGCGTGGCATCGTGAAAGTTGCTGCAGTTAAAGCTCCGGGC
 261 ThrLeuValValAsnThrMETArgGlyIleValLysValAlaAlaValLysAlaProGly

 841 TTCGGCGATCGTCGTAAAGCTATGCTGCAGGATATCGCAACCCTGACTGGCGGTACCGTA
 281 PheGlyAspArgArgLysAlaMETLeuGlnAspIleAlaThrLeuThrGlyGlyThrVal

 901 ATCTCTGAAGAGATCGGTATGGAGCTGGAAAAAGCAACCCTGGAAGACCTGGGTGAGGCT
 301 IleSerGluGluIleGlyMETGluLeuGluLysAlaThrLeuGluAspLeuGlyGlnAla

 961 AAACGCGTTGTGATCAACAAAGACACCACCACCATCATCGATGGCGTGGGCGAAGAAGCT
 321 LysArgValValIleAsnLysAspThrThrThrIleIleAspGlyValGlyGluGluAla

 1021 GCAATCCAGGGCCGTGTTGCTCAGATCCGTCAGCAGATTGAAGAAGCAACTTCTGACTAC
 341 AlaIleGlnGlyArgValAlaGlnIleArgGlnGlnIleGluGluAlaThrSerAspTyr

FIG. 1A

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1081 GACCGTGAAAACTGCAGGAGCGCGTAGCGAACTGGCAGGCGGCGTTGCAGTTATCAAA
361 AspArgGluLysLeuGlnGluArgValAlaLysLeuAlaGlyGlyValAlaValIleLys
1141 GTAGGTGCTGCTACCGAAGTTGAAATGAAAGAGAAAAAGCACGCGTTGAAGACGCCCTG
381 ValGlyAlaAlaThrGluValGluMETLysGluLysLysAlaArgValGluAspAlaLeu
1201 CACGCGACCCGTGCTGCGGTAGAAGAAGGCGTGTTGCTGGTGGTGGTGTGCGCTGATC
401 HisAlaThrArgAlaAlaValGluGluGlyValValAlaGlyGlyGlyValAlaLeuIle

1261 CGCGTAGCGTCTAAACTGGCTGACCTGCGTGCTCAGAACGAAGACCAGAACGTGGGTATC
421 ArgValAlaSerLysLeuAlaAspLeuArgGlyGlnAsnGluAspGlnAsnValGlyIle

1321 AAAGTTGCACTGCGTGCAATGGAAGCTCCGCTGCGTCAGATCGTCCTGAACTGCGGCGAA
441 LysValAlaLeuArgAlaMETGluAlaProLeuArgGlnIleValLeuAsnCysGlyGlu

1381 GAACCGTCTGTTGTTGCTAACACCGTTAAAGGCGGCGACGGCAACTACGGTTACAACGCA
461 GluProSerValValAlaAsnThrValLysGlyGlyAspGlyAsnTyrGlyTyrAsnAla

1441 GCAACCGAAGAATACGGCAACATGATCGACATGGGTATCCTGGACCCAACCAAGTAACC
481 AlaThrGluGluTyrGlyAsnMETIleAspMETGlyIleLeuAspProThrLysValThr

1501 CGTTCCTGCTCTGCAGTACGCGGCTTCTGTGGCTGGCCTGATGATCACCACCGAATGCATG
501 ArgSerAlaLeuGlnTyrAlaAlaSerValAlaGlyLeuMETIleThrThrGluCysMET

1561 GTTACCGACCTGCCGAAAAACGATGCAGCTGACTTAGGCGCTGCTGGCGGCATGGGTGGC
521 ValThrAspLeuProLysAsnAspAlaAlaAspLeuGlyAlaAlaGlyGlyMETGlyGly

1621 ATGGGTGGCATGGGCGGCATGATGTAA
541 METGlyGlyMETGlyGlyMETMET***

FIG. 1B

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1      ATGGCAGCTAAAGACGTAAAATTCGGTAACGACGCTCGTGTGAAAATGCTGCGCGGCGTA
1      METAlaAlaLysAspValLysPheGlyAsnAspAlaArgValLysMETLeuArgGlyVal

61     AACGTACTGGCAGATGCAGTGAAAGTTACCCCTCGGTCCGAAAGGCCGTAACGTAGTTCTG
21     AsnValLeuAlaAspAlaValLysValThrLeuGlyProLysGlyArgAsnValValLeu

121    GATAAATCTTTCGGTGCACCGACCATCACCAAAGATGGTGTTCGGTTGCTCGTGAAATC
41     AspLysSerPheGlyAlaProThrIleThrLysAspGlyValSerValAlaArgGluIle

181    GAACTGGAAGACAAGTTCGAAAACATGGGTGCGCAGATGGTGAAAGAAGTTGCCTCTAAA
61     GluLeuGluAspLysPheGluAsnMETGlyAlaGlnMETValLysGluValAlaSerLys

241    GCGAACGACGCTGCAGGCGACGGTACCACCCTGCAACCGTACTGGCTCAGGCTATCATC
81     AlaAsnAspAlaAlaGlyAspGlyThrThrThrAlaThrValLeuAlaGlnAlaIleIle

301    ACTGAAGGTCTGAAAGCTGTTGCTGCGGGCATGAACCCGATGGACCTGAAACGTGGTATC
101    ThrGluGlyLeuLysAlaValAlaAlaGlyMETAsnProMETAspLeuLysArgGlyIle

361    GACAAAGCTGTTACCGCTGCAGTTGAAGAACTGAAAGCGCTGTCCGTACCGTGCTCTGAC
121    AspLysAlaValThrAlaAlaValGluGluLeuLysAlaLeuSerValProCysSerAsp

421    TCTAAAGCGATTGCTCAGGTTGGTACTATCTCCGCTAACTCCGACGAAACCGTAGGTAAA
141    SerLysAlaIleAlaGlnValGlyThrIleSerAlaAsnSerAspGluThrValGlyLys

481    CTGATCGCTGAAGCGATGGACAAAGTCGGTAAAGAAGGCGTTATCACCGTTGAAGACGGT
161    LeuIleAlaGluAlaMETAspLysValGlyLysGluGlyValIleThrValGluAspGly

541    ACCGGTCTGCAGGACGAACTGGACGTGGTTGAAGGTATGCAGTTCGACCGTGGCTACCTG
181    ThrGlyLeuGlnAspGluLeuAspValValGluGlyMETGlnPheAspArgGlyTyrLeu

601    TCTCCTTACTTCATCAACAAGCCGGAACCTGGCGCAGTAGAACTGGAAGCCCGTTTCATC
201    SerProTyrPheIleAsnLysProGluThrGlyAlaValGluLeuGluSerProPheIle

661    CTGCTGGCTGACAAGAAAATCTCCAACATCCGCGAAAATGCTGCCGGTTCTGGAAGCCGTT
221    LeuLeuAlaAspLysLysIleSerAsnIleArgGluMETLeuProValLeuGluAlaVal

721    GCCAAAGCAGGCAAACCGCTGCTGATCATCGCTGAAGATGTAGAAGCGAAGCGCTGGCA
241    AlaLysAlaGlyLysProLeuLeuIleIleAlaGluAspValGluGlyGluAlaLeuAla

781    ACTCTGGTTGTTAACACCATGCGTGGCATCGTGAAAGTTGCTGCAGTTAAAGCTCCGGGC
261    ThrLeuValValAsnThrMETArgGlyIleValLysValAlaAlaValLysAlaProGly

841    TTCGGCGATCGTCGTAAAGCTATGCTGCAGGATATCGCAACCCCTGACTGGCGGTACCGTA
281    PheGlyAspArgArgLysAlaMETLeuGlnAspIleAlaThrLeuThrGlyGlyThrVal

901    ATCTCTGAAGAGATCGGTATGGAGCTGGAAAAAGCAACCCTGGAAGACCTGGGTGAGGCT
301    IleSerGluGluIleGlyMETGluLeuGluLysAlaThrLeuGluAspLeuGlyGlnAla

961    AAACGCGTTGTGATCAACAAAGACACCACCACCATCATCGATGGCGTGGGCGAAGAAGCT
321    LysArgValValIleAsnLysAspThrThrThrIleIleAspGlyValGlyGluGluAla

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FIG. 2A

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1021 GCAATCCAGGGCCGTGTTGCTCAGATCCGTCAGCAGATTGAAGAAGCAACTTCTGACTAC
341 AlaIleGlnGlyArgValAlaGlnIleArgGlnGlnIleGluGluAlaThrSerAspTyr

1081 GACCGTGAAAACTGCAGGAGCGCGTAGCGAACTGGCAGGCGGCGTTGCAGTTATCAAA
361 AspArgGluLysLeuGlnGluArgValAlaLysLeuAlaGlyGlyValAlaValIleLys

1141 GTAGGTGCTGCTACCGAAGTTGAAATGAAAGAGAAAAAGCACGCGTTGAAGACGCCCTG
381 ValGlyAlaAlaThrGluValGluMETLysGluLysLysAlaArgValGluAspAlaLeu

1201 CACGCGACCCGTGCTGCGGTAGAAGAAGGCGTGGTTGCTGGTGGTGGTGGTGGCTGATC
401 HisAlaThrArgAlaAlaValGluGluGlyValValAlaGlyGlyGlyValAlaLeuIle

1261 CGCGTAGCGTCTAAACTGGCTGACCTGCGTGGTCAGAACGAAGACCAGAACGTGGGTATC
421 ArgValAlaSerLysLeuAlaAspLeuArgGlyGlnAsnGluAspGlnAsnValGlyIle

1321 AAAGTTGCACTGCGTGCAATGGAAGCTCCGCTGCGTCAGATCGTCCTGAACTGCGGCGAA
441 LysValAlaLeuArgAlaMETGluAlaProLeuArgGlnIleValLeuAsnCysGlyGlu

1381 GAACCGTCTGTTGTTGCTAACACCGTTAAAGGCGGCGACGGCAACTACGGTTACAACGCA
461 GluProSerValValAlaAsnThrValLysGlyGlyAspGlyAsnTyrGlyTyrAsnAla

1441 GCAACCGAAGAATACGGCAACATGATCTGCATGGGTATCCTGGACCCAACCAAAGTAACC
481 AlaThrGluGluTyrGlyAsnMETIleCysMETGlyIleLeuAspProThrLysValThr

1501 CGTTCTGCTCTGCAGTACGCGGCTTCTGTGGCTGGCCTGATGATCACCACCGAATGCATG
501 ArgSerAlaLeuGlnTyrAlaAlaSerValAlaGlyLeuMETIleThrThrGluCysMET

1561 GTTACCGACCTGCCGAAAAACGATGCAGCTGACTTAGGCGCTGCTGGCGGCATGGGTGGC
521 ValThrAspLeuProLysAsnAspAlaAlaAspLeuGlyAlaAlaGlyGlyMETGlyGly

1621 ATGGGTGGCATGGGCGGCATGATGTAA
541 METGlyGlyMETGlyGlyMETMET***

FIG. 2B

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1      ATGGCAGCTAAAGACGTAAAATTCGGTAACGACGCTCGTGTGAAAATGCTGCGCGGCGTA
1      METAlaAlaLysAspValLysPheGlyAsnAspAlaArgValLysMETLeuArgGlyVal

61     AACGTACTGGCAGATGCAGTGAAAGTTACCCTCGGTCCAAAAGGCCGTAACTAGTTCTG
21     AsnValLeuAlaAspAlaValLysValThrLeuGlyProLysGlyArgAsnValValLeu
121    GATAAATCTTTCGGTGCACCGACCATCACCAAAGATGGTGTTCGGTTGCTCGTGAAATC
41     AspLysSerPheGlyAlaProThrIleThrLysAspGlyValSerValAlaArgGluIle

181    GAACTGGAAGACAAGTTCGAAAATATGGGTGCGCAGATGGTGAAAGAAGTTGCCTCTAAA
61     GluLeuGluAspLysPheGluAsnMETGlyAlaGlnMETValLysGluValAlaSerLys

241    GCAAACGACGCTGCAGGCGACGGTACCACCCTGCAACCGTACTGGCTCAGGCTATCATC
81     AlaAsnAspAlaAlaGlyAspGlyThrThrThrAlaThrValLeuAlaGlnAlaIleIle

301    ACTGAAGGTCTGAAAGCTGTTGCTGCGGGCATGAACCCGATGGACCTGAAACGTGGTATC
101    ThrGluGlyLeuLysAlaValAlaAlaGlyMETAsnProMETAspLeuLysArgGlyIle

361    GACAAAGCGGTTACCGTTGCAGTTGAAGAACTGAAAGCGCTGTCCGTACCATGCTCTGAC
121    AspLysAlaValThrValAlaValGluGluLeuLysAlaLeuSerValProCysSerAsp

421    TCTAAAGCGATTGCTCAGGTTGGTACCATCTCCGCTAACTCCGACGAAACCGTAGGTAAA
141    SerLysAlaIleAlaGlnValGlyThrIleSerAlaAsnSerAspGluThrValGlyLys

481    CTGATCGCTGAAGCGATGGACAAAGTCGGTAAAGAAGGCGTTATCACCGTTGAAGACGGT
161    LeuIleAlaGluAlaMETAspLysValGlyLysGluGlyValIleThrValGluAspGly

541    ACCGGTCTGCAGGACGAACTGGACGTGGTTGAAGGTATGCAGTTCGACCGTGGCTACCGT
181    ThrGlyLeuGlnAspGluLeuAspValValGluGlyMETGlnPheAspArgGlyTyrArg

601    TATGATTACTTCATCAACAAGCCGAACTGGCGCAGTAGAACTGGAAAGCCCGTTTCATC
201    TyrAspTyrPheIleAsnLysProGluThrGlyAlaValGluLeuGluSerProPheIle

661    CTGCTGGCTGACAAGAAAATCTCCAACATCCGCGAAATGCTGCCGGTTCTGGAAGCTGTT
221    LeuLeuAlaAspLysLysIleSerAsnIleArgGluMETLeuProValLeuGluAlaVal

721    GCCAAAGCAGGCAAACCGCTGCTGATCATCGCTGAAGATGTAGAAGGCCAAGCGCTGGCA
241    AlaLysAlaGlyLysProLeuLeuIleIleAlaGluAspValGluGlyGluAlaLeuAla

781    ACTCTGGTTGTTAACACCATGCGTGGCATCGTGAAAGTCGCTGCGGTTAAAGCACCGGGC
261    ThrLeuValValAsnThrMETArgGlyIleValLysValAlaAlaValLysAlaProGly

841    TTCGGCGATCGTCGTAAAGCTATGCTGCAGGATATCGCAACCCCTGACTGGCGGTACCGTG
281    PheGlyAspArgArgLysAlaMETLeuGlnAspIleAlaThrLeuThrGlyGlyThrVal

901    ATCTCTGAAGAGATCGGTATGGAGCTGGAAAAAGCAACCCTGGAAGACCTGGGTCAGGCT
301    IleSerGluGluIleGlyMETGluLeuGluLysAlaThrLeuGluAspLeuGlyGlnAla

961    AAACGTGTTGTGATCAACAAAGACACCACCACTATCATCGATGGCGTGGGTGAAGAAGCT
321    LysArgValValIleAsnLysAspThrThrThrIleIleAspGlyValGlyGluGluAla

1021   GCAATCCAGGGCCGTGTTGCTCAGATCCGTCAGCAGATTGAAGAAGCAACTTCTGACTAC
341   AlaIleGlnGlyArgValAlaGlnIleArgGlnGlnIleGluGluAlaThrSerAspTyr

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FIG. 3A

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1081 GACCGTGAAAACTGCAGGAACGCGTAGCGAACTGGCAGGCGGCGTTGCAGTTATCAAA
361 AspArgGluLysLeuGlnGluArgValAlaLysLeuAlaGlyGlyValAlaValIleLys

1141 GTGGGTGCTGCTACCGAAGTTGAAATGAAAGAGAAAAAAGCACGCGTTGAAGATGCCCTG
381 ValGlyAlaAlaThrGluValGluMETLysGluLysLysAlaArgValGluAspAlaLeu

1201 CACGCGACCCGTGCTGCGGTAGAAGAAGGCGTGGTTGCTGGTGGTGGTGTTCGCTGATC
401 HisAlaThrArgAlaAlaValGluGluGlyValValAlaGlyGlyGlyValAlaLeuIle

1261 CGCGTAGCGTCTAAACTGGCTGACCTGCGTGGTCAGAACGAAGACCAGAACGTGGGTATC
421 ArgValAlaSerLysLeuAlaAspLeuArgGlyGlnAsnGluAspGlnAsnValGlyIle

1321 AAAGTTGCACTGCGTGCAATGGAAGCTCCGCTGCGTCAGATCGTATTGAACTGCGGCGAA
441 LysValAlaLeuArgAlaMETGluAlaProLeuArgGlnIleValLeuAsnCysGlyGlu

1381 GAACCGTCTGTTGTTGCTAACACCGTTAAAGGCGGCGACGGCAACTACGGTTACAACGCA
461 GluProSerValValAlaAsnThrValLysGlyGlyAspGlyAsnTyrGlyTyrAsnAla
1441 GCAACCGAAGAATACGGCAACATGATCTGCATGGGTATCCTGGATCCAACCAAAGTAAC
481 AlaThrGluGluTyrGlyAsnMETIleCysMETGlyIleLeuAspProThrLysValThr

1501 CGTTCTGCTCTGCAGTACGCAGCTTCTGTGGCTGGCCTGATGATCACCACCGAATGCATG
501 ArgSerAlaLeuGlnTyrAlaAlaSerValAlaGlyLeuMETIleThrThrGluCysMET

1561 GTTACCGACCTGCCGAAAAACGATGCAGCTGACTTAGGCGCTGCTGGCGGTATGGGCGGC
521 ValThrAspLeuProLysAsnAspAlaAlaAspLeuGlyAlaAlaGlyGlyMETGlyGly

1621 ATGGGTGGCATGGGCGGCATGATGTAA
541 METGlyGlyMETGlyGlyMETMET***

FIG. 3B

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1      ATGGCAGCTAAAGACGTAAAATTCGGTAACGACGCTCGTGTGAAAATGCTGCGCGGCGTA
1      METAlaAlaLysAspValLysPheGlyAsnAspAlaArgValLysMETLeuArgGlyVal

61     AACGTACTGGCAGATGCAGTGAAAGTTACCCTCGGTCCGAAAGGCCGTAACGTAGTTCTG
21     AsnValLeuAlaAspAlaValLysValThrLeuGlyProLysGlyArgAsnValValLeu

121    GATAAATCTTTCGGTGCACCGACCATCACCAAAGATGGTGTTTCCGTTGCTCGTGAAATC
41     AspLysSerPheGlyAlaProThrIleThrLysAspGlyValSerValAlaArgGluIle

181    GAACTGGAAGACAAGTTCGAAAACATGGGTGCGCAGATGGTGAAAGAAGTTGCCTCTAA
61     GluLeuGluAspLysPheGluAsnMETGlyAlaGlnMETValLysGluValAlaSerLys

241    GCGAACGACGCTGCAGGCGACGGTACCACCACTGCAACCGTACTGGCTCAGGCTATCATC
81     AlaAsnAspAlaAlaGlyAspGlyThrThrThrAlaThrValLeuAlaGlnAlaIleIle

301    ACTGAAGGTCTGAAAGCTGTTGCTGCGGGCATGAACCCGATGGACCTGAAACGTGGTATC
101    ThrGluGlyLeuLysAlaValAlaAlaGlyMETAsnProMETAspLeuLysArgGlyIle

361    GACAAAGCTGTTACCGCTGCAGTTGAAGAACTGAAAGCGCTGTCCGTACCGTGCTCTGAC
121    AspLysAlaValThrAlaAlaValGluGluLeuLysAlaLeuSerValProCysSerAsp

421    TCTAAAGCGATTGCTCAGGTTGGTACTATCTCCGCTAACTCCGACGAAACCGTAGGTAA
141    SerLysAlaIleAlaGlnValGlyThrIleSerAlaAsnSerAspGluThrValGlyLys

481    CTGATCGCTGAAGCGATGGACAAAGTCGGTAAAGAAGGCGTTATCACCGTTGAAGACGGT
161    LeuIleAlaGluAlaMETAspLysValGlyLysGluGlyValIleThrValGluAspGly

541    ACCGGTCTGCAGGACGAACTGGACGTGGTTGAAGGTATGCAGTTCGACCGTGGCATCCTG
181    ThrGlyLeuGlnAspGluLeuAspValValGluGlyMETGlnPheAspArgGlyIleLeu

601    TCTCCTATCTTTCATCAACAAGCCGAAACTGGCGCAGTAGAACTGGAAGCCCGTTTCATC
201    SerProIlePheIleAsnLysProGluThrGlyAlaValGluLeuGluSerProPheIle

661    CTGCTGGCTGACAAGAAAATCTCCAACATCCGCGAAATGATCCCGGTTATCGAAGCCGTT
221    LeuLeuAlaAspLysLysIleSerAsnIleArgGluMETIleProValIleGluAlaVal

721    GCCAAAGCAGGCAAACCGCTGCTGATCATCGCTGAAGATGTAGAAGGCGAAGCGTTTCGCA
241    AlaLysAlaGlyLysProLeuLeuIleIleAlaGluAspValGluGlyGluAlaPheAla

781    ACTCTGCTTTTCAACACCATGCGTGGCATCGTGAAAGTTGCTGCAGTTAAAGCTCCGGGC
261    ThrLeuLeuPheAsnThrMETArgGlyIleValLysValAlaAlaValLysAlaProGly

841    TTCGGCGATCGTCGTAAAGCTATGCTGCAGGATATCGCAACCCCTGACTGGCGGTACCGTA
281    PheGlyAspArgArgLysAlaMETLeuGlnAspIleAlaThrLeuThrGlyGlyThrVal
901    ATCTCTGAAGAGATCGGTATGGAGCTGGAAAAAGCAACCCTGGAAGACCTGGGTCAGGCT
301    IleSerGluGluIleGlyMETGluLeuGluLysAlaThrLeuGluAspLeuGlyGlnAla

961    AAACGCGTTGTGATCAACAAAGACACCACCACCATCATCGATGGCGTGGGCGAAGAAGCT
321    LysArgValValIleAsnLysAspThrThrThrIleIleAspGlyValGlyGluGluAla

1021   GCAATCCAGGGCCGTGTTGCTCAGATCCGTGAGCAGATTGAAGAAGCAACTTCTGACTAC
341   AlaIleGlnGlyArgValAlaGlnIleArgGlnGlnIleGluGluAlaThrSerAspTyr

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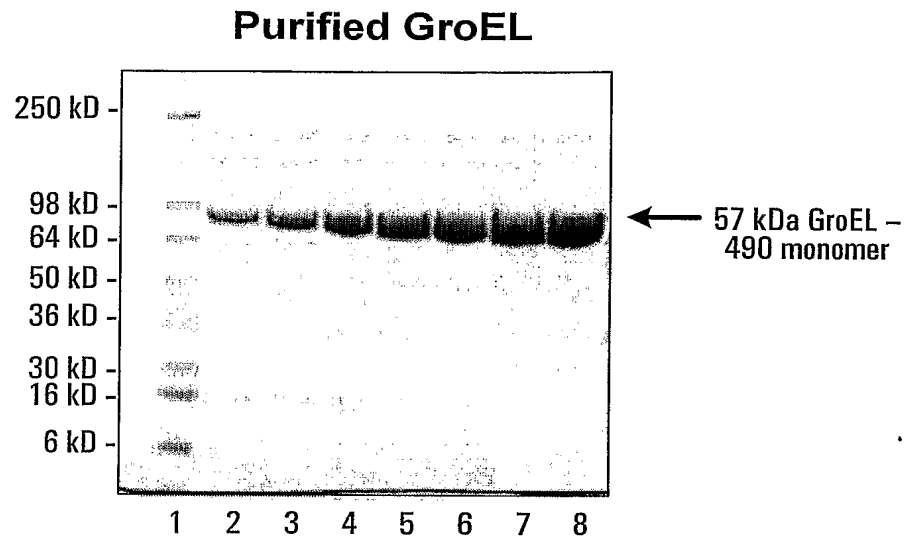
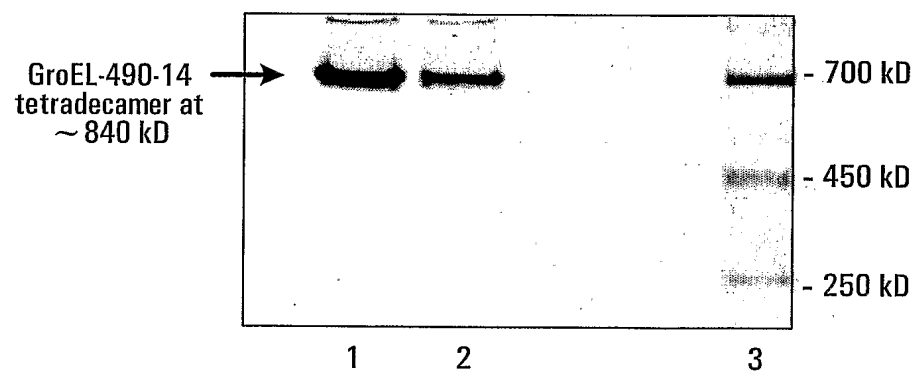
FIG. 4A

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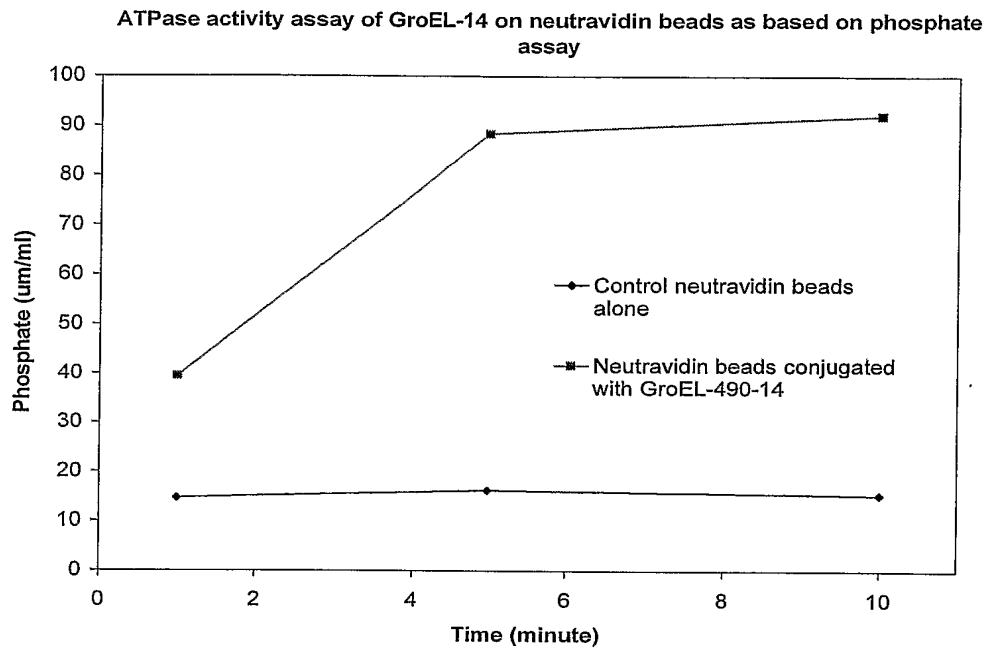
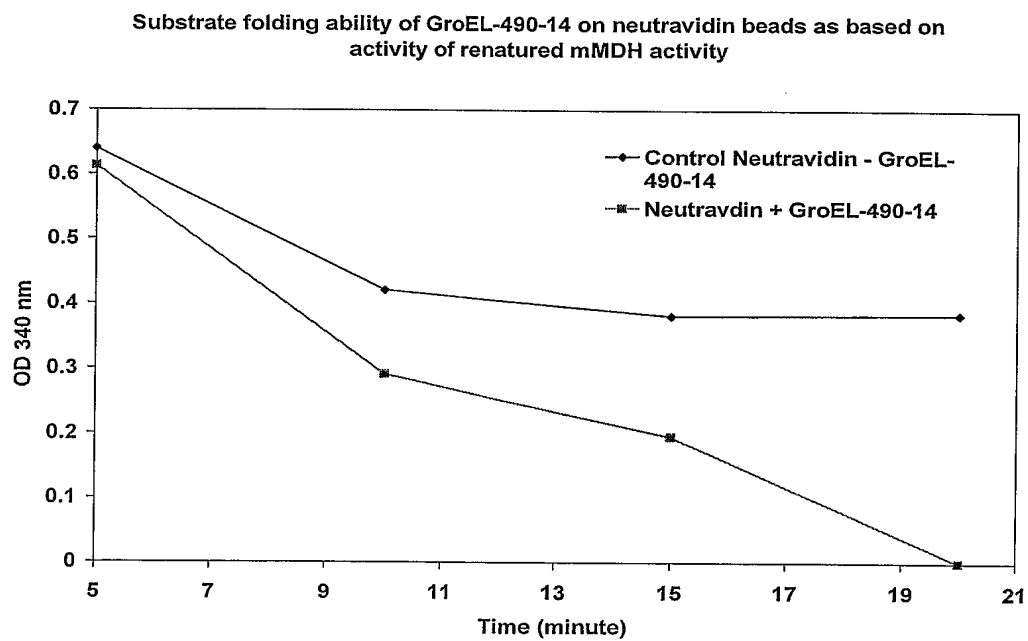
1081	GACCGTGAAAAACTGCAGGAGCGCGTAGCGAAACTGGCAGGCGGCGTTGCAGTTATCAAA
361	AspArgGluLysLeuGlnGluArgValAlaLysLeuAlaGlyGlyValAlaValIleLys
1141	GTAGGTGCTGCTACCGAAGTTGAAATGAAAGAGAAAAAGCACGCGTTGAAGACGCCCTG
381	ValGlyAlaAlaThrGluValGluMETLysGluLysLysAlaArgValGluAspAlaLeu
1201	CACGCGACCCGTGCTGCGGTAGAAGAAGGCGTGGTTGCTGGTGGTGGTGTTCGCTGATC
401	HisAlaThrArgAlaAlaValGluGluGlyValValAlaGlyGlyGlyValAlaLeuIle
1261	CGCGTAGCGTCTAAACTGGCTGACCTGCGTGGTCAGAACGAAGACCAGAACGTGGGTATC
421	ArgValAlaSerLysLeuAlaAspLeuArgGlyGlnAsnGluAspGlnAsnValGlyIle
1321	AAAGTTGCACTGCGTGCAATGGAAGCTCCGCTGCGTCAGATCGTCCTGAACTGCGGCGAA
441	LysValAlaLeuArgAlaMETGluAlaProLeuArgGlnIleValLeuAsnCysGlyGlu
1381	GAACCGTCTGTGTGTTGCTAACACCGTTAAAGGCGGCGACGGCAACTACGGTTACAACGCA
461	GluProSerValValAlaAsnThrValLysGlyGlyAspGlyAsnTyrGlyTyrAsnAla
1441	GCAACCGAAGAATACGGCAACATGATCTGCATGGGTATCCTGGACCCAACCAAAGTAACC
481	AlaThrGluGluTyrGlyAsnMETIle Cys METGlyIleLeuAspProThrLysValThr
1501	CGTTC TGCTCTGCAGTACGCGGCTTCTGTGGCTGGCCTGATGATCACCACCGAATGCATG
501	ArgSerAlaLeuGlnTyrAlaAlaSerValAlaGlyLeuMETIleThrThrGluCysMET
1561	GTTACCGACCTGCCGAAAAACGATGCAGCTGACTTAGGCGCTGCTGGCGGCATGGGTGGC
521	ValThrAspLeuProLysAsnAspAlaAlaAspLeuGlyAlaAlaGlyGlyMETGlyGly
1621	ATGGGTGGCATGGGCGGCATGATGTAA
541	METGlyGlyMETGlyGlyMETMET***

FIG. 4B

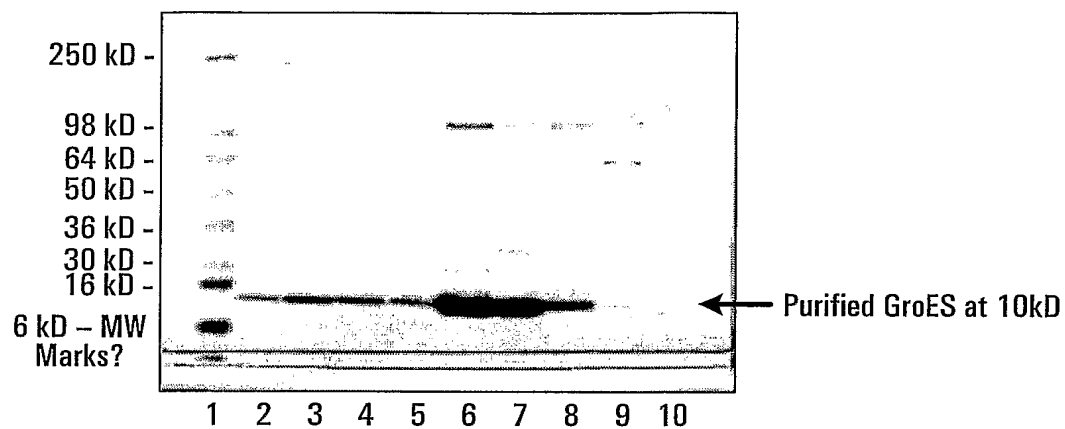
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**FIG. 5****FIG. 6**

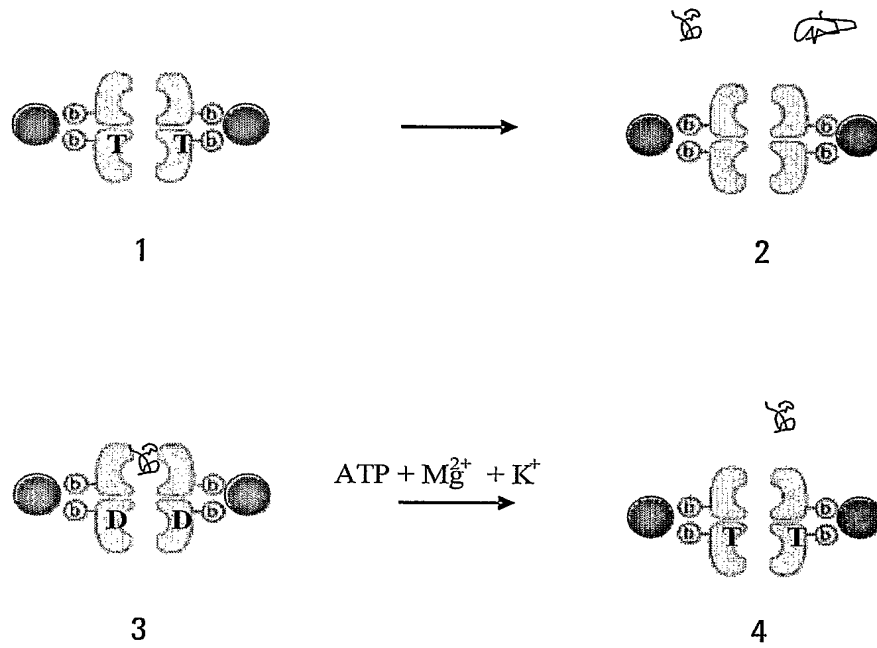
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**FIG. 7****FIG. 8**

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**FIG. 9**

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**FIG. 10**